



INFORMATION DISCLOSURE STATEMENT	Applicant(s): HAMILL et al.	Serial No.: 10/585,503
	Application Filing Date: July 7, 2006	Confirmation No.: 2236
	Group: 1642	
	Information Disclosure Statement mailed: November 22, 2006	

U.S. PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		5,756,663	05/26/98	Lampe et al.			
		6,194,389	02/27/01	Johnston et al.			
		US 2002/0077286 A1	06/20/02	Sachs et al.			
		60/535,327	01/09/04	Hamill et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	X	WO 2005/070122 A2	08/04/05	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
	X	American Type Culture Collection, "ATCC Number CRL-1435," organism: Homo sapiens (humans); designation: PC-3 [online]; Manassas, VA [retrieved on 2006-11-16] from the Internet. Retrieved from the Internet: <URL:http://www.atcc.org/common/catalog/numSearch/numResults.cfm>; 4 pgs.
	X	American Type Culture Collection, "ATCC Number CRL-1740," organism: Homo sapiens (humans); designation: LNCaP clone FGC [online]; Manassas, VA [retrieved on 2006-11-16] from the Internet. Retrieved from the Internet: <URL:http://www.atcc.org/common/catalog/numSearch/numResults.cfm>; 4 pgs.

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	X	Auerbach A., "Single-channel dose-response studies in single, cell-attached patches," <i>Biophys. Journal</i> , September 1991;60:660-670.
	X	Banyard & Zetter, "The role of cell motility in prostate cancer," <i>Cancer and Metastasis Reviews</i> , 1999;17:449-458.
	X	BBC News, "Tarantula 'may save lives'," [online]. BBC Homepage World Service Education, 18 May 2000, [retrieved on 2006-November-02]. Retrieved from the Internet: <URL:http://news.bbc.co.uk/2/hi/science/nature/753403.stm>; 3 pgs.
	X	Bielfeld-Ackermann et al., "Maitotoxin (MTX) activates a nonselective cation channel in <i>Xenopus laevis</i> oocytes," <i>Pfluegers Arch. European J. Physiol</i> , 1998;436:329-337.
	X	"BLAST," National Institutes of Health, Bethesda, MD [online]. Retrieved from Internet on April 17, 2001. <URL:http://www.ncbi.nlm.nih.gov/gorf/bl2.html>, 2 pgs.
	X	Bobanovic et al., "Molecular cloning and immunolocalization of a novel vertebrate trp homologue from <i>Xenopus</i> ," <i>Biochem J</i> , 1999;340:593-599.
	X	Bode et al., "Tarantula peptide inhibits atrial fibrillation," <i>Nature</i> , 4 January 2001;409:35-36.
	X	Bormann et al., "Mechanism of anion permeation through channels gated by glycine and γ -aminobutyric acid in mouse spinal neurones," <i>J Physiol.</i> , 1987;385:243-286.
	X	Brereton et al., "Maitotoxin activates an endogenous non-selective cation channel and is an effective initiator of the activation of the heterologously expressed hTRPC-1 (transient receptor potential) non-selective cation channel in H4-IIIE liver cells," <i>Biochem. Biophys. Acta.</i> , 2001;1540:107-126.

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	X	Brereton et al., "Evidence that the TRP-1 protein is unlikely to account for store-operated Ca^{2+} inflow in <i>Xenopus laevis</i> oocytes," <i>Mol. Cell. Biochem.</i> , 2000;214:63-74.
	X	Caldwell et al., "Using gadolinium to identify stretch-activated channels: technical considerations," <i>Am J Physiol.</i> , 1998;275:C619-621.
	X	Christensen, "Mediation of cell volume regulation by Ca^{2+} influx through stretch-activated channels," <i>Nature</i> , 5 November 1987;330:66-68.
	X	Clapham, "TRP channels as cellular sensors," <i>Nature</i> , 4 December 2003;426:517-524.
	X	Collins et al., "Identification and isolation of human prostate epithelial stem cells based on $\alpha_2\beta_1$ -integrin expression," <i>J Cell Sci.</i> , 2001;114(21):3865-3872.
	X	Diss et al., "Expression of skeletal muscle-type voltage gated Na^+ channel in rat and human prostate cancer cell lines," <i>FEBS Letts.</i> , 1998;427:5-10.
	X	Doyle et al., "Calcium transients induce spatially coordinated increases in traction force during the movement of fish keratocytes," <i>J Cell Science</i> , 2004;117:2203-2214.
	X	Fischer et al., eds., <i>The Cancer Chemotherapy Handbook</i> , 6 th Ed., 2003, title page, publisher's page and table of contents only; 6 pgs.
	X	Franco-Obregón and Lansman, "Changes in mechanosensitive channel gating following mechanical stimulation in skeletal muscle myotubes from the <i>mdx</i> mouse," <i>J Physiol.</i> , 2002;539.2:391-407.
	X	Geiger and Bershadsky, "Assembly and mechanosensory function and focal contacts," <i>Curr Opin Cell Biol.</i> , 2001;13:584-592.
	X	Greenberg et al., "Prostate Cancer in a Transgenic Mouse," <i>Proc Natl Acad Sci USA</i> , April 1995;92:3439-3443.

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	X	Guharay and Sachs, "Stretch-activated single ion channel currents in tissue cultured embryonic chick skeletal muscle," <i>J Physiol.</i> , 1984;352:685-701.
	X	Gutierrez et al., "Activation of a Ca ²⁺ -permeable cation channel by two different inducers of apoptosis in human prostatic cancer cell line," <i>J Physiol.</i> , May 1999;517.1:95-107.
	X	Haas & Sakr., "Epidemiology of Prostate Cancer," <i>CA Cancer Journal Clinic</i> , September/October 1997;47(5):273-287.
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	X	Hamill & McBride, "Rapid adaptation of single mechanosensitive channels in <i>Xenopus</i> oocytes," <i>Proc Natl Acad Sci USA</i> , 15 August 1992;89:7462-7466.
	X	Hamill & McBride, "The Pharmacology of Mechanogated Membrane Ion Channels," <i>Pharmacological Reviews</i> , 1996;48(2):231-252.
	X	Hamill & McBride, "Induced membrane hypo/hyper-mechanosensitivity: a limitation of patch-clamp recording," <i>Ann Rev Physiol.</i> , 1997;59:621-631.
	X	Hamill & McBride, "Patch and whole cell currents recorded from BC3H-1 muscle cells," <i>Biophys J.</i> , February 14-18 1993; 37 th Annual Meeting Program and Abstracts, Washington D.C.;64:M-Pos 407;A93.
	X	Hamill & McBride, "Pressure/patch-clamp methods," <i>Patch Clamp Applications and Protocols</i> , Boulton eds., Humana Press Inc., New Jersey, 1995:75-87.

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	X	Hamill & Martinac, "Molecular basis of mechanotransduction in living cells," <i>Physiol Revs.</i> , April 2001;81:685-740.
	X	Hamill et al., "Improved patch-clamp techniques for high-resolution current recording from cells and cell-free membrane patches," <i>Pfluegers Archiv</i> , 1981;391:85-100.
	X	Hamill et al., "Calcium-activated apoptosis in frog (<i>Xenopus laevis</i>) red blood cells," <i>J Physiol.</i> , September 2000;527P:45-46P.
	X	Harteneck et al., "From worm to man: three subfamilies of TRP channels," <i>Trends Neurosci.</i> , 2000;23:159-166.
	X	Hofmann et al., "Subunit composition of mammalian transient receptor potential channels in living cells," <i>Proc Natl Acad Sci USA</i> , 28 May 2002;99(11):7461-7466.
	X	Hu et al., "Stretch-activated Ion Channels in the Heart," <i>J Mol Cell Cardiol.</i> , 1997;29:1511-1523.
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	X	Kassis et al., "Tumor invasion as dysregulated cell motility," <i>Cancer Biology</i> , 2001;11:105-117.
	X	Lane et al., "Structure-activity relations of amiloride and its analogues in blocking the mechanosensitive channel in <i>Xenopus</i> oocytes," <i>Brit J. Pharmacol.</i> , 1992;106(2)283-286.

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	X	Lane et al., "Amiloride block of the mechanosensitive cation channel in <i>Xenopus</i> oocytes," <i>J Physiol</i> , 1991;441:347-366.
	X	Lauffenburger & Horwitz, "Cell Migration: a physically integrated molecular process," <i>Cell</i> , 9 February 1996;84:359-369.
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	X	Lintschinger et al., "Coassembly of Trp1 and Trp3 Proteins Generates Diacylglycerol- and Ca^{2+} -sensitive Cation Channels," <i>J Biol Chem</i> , 8 September 2000;275(36):27799-27805.
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	X	Lockwich et al., "Assembly of Trp1 in a Signaling Complex Associated with Caveolin-Scaffolding Lipid Raft Domains," <i>J Biol Chem</i> , 21 April 2000;275(16):11934-11942.
	X	Mandeville et al., "Intracellular calcium levels correlate with speed and persistent forward motion in migrating neutrophils," <i>Biophys. J.</i> , April 1995;68:1207-1217.
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	X	Martinac & Hamill, "Gramicidin A channels switch between stretch activation and stretch inactivation depending upon bilayer thickness," <i>Proc. Natl. Acad. Sci. USA.</i> , 2 April 2002;99(7):4308-4312.
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	X	McBride et al., "Pressure-clamp: a method for rapid step perturbation of mechanosensitive channels," <i>Pflugers Archiv.</i> , 1992;421:606-612.
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	X	Mercurio et al., "Towards a mechanistic understanding of tumor invasion—lessons from the $\alpha 6 \beta 4$ integrin," <i>Semin. Cancer Biol.</i> , April 2001;11(2):129-141.
	X	Minke & Cook, "TRP channel proteins and signal transduction," <i>Physiol. Rev.</i> , 2002;82:429-472.
	X	Montell C., "New light on TRP and TRPL," <i>Mol. Pharmacol.</i> , 1997;52:755-763.
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	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus X89066, Accession No. X89066, "H. sapiens mRNA for TRPC1 protein," [online]. Bethesda, MD [retrieved on 2006-11-16]. Retrieved from the Internet:<URL:http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotide&val=1370118>; 5 pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus P48995, Accession No. P48995, "Short transient receptor potential channel 1 (TrpC1) (TRP-1 protein)," [online]. Bethesda, MD [retrieved on 2006-11-16]. Retrieved from the Internet:<URL:http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=protein&val=1351302>; 6 pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus CAA61447, Accession No. CAA61447, "TRPC1 Protein (Homo sapiens)," [online]. Bethesda, MD [retrieved on 2006-11-16]. Retrieved from the Internet:<URL:http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=protein&val=1370119>;3pgs.
	X	National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus A59371, Accession No. A59371, "Toxin GsMTx-4 (validated)- Chilean tarantula," [online]. Bethesda, MD [retrieved on 2006-11-16]. Retrieved from the Internet:<URL:http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=protein&val=25412346>;2 pgs.
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	X	Polin et al., "Treatment of human prostate tumors PC-3 and TSU-PR1 with standard and investigational agents in SCID mice," <i>Invest. New Drugs</i> , 1997;15(2):99-108.
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	X	Sambrook et al., <i>Molecular Cloning: A Laboratory Manual</i> , Second Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989; title page, publisher's page and table of contents only (30) pgs.
	X	Schwab et al., "Intracellular Ca ²⁺ distribution in migrating transformed renal epithelial cells," <i>Pfluegers Arch</i> , May 1997;434(1):70-76.
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Examiner Initial	Copy Enclosed	Document Description
	X	Zhang and Hamill, "Calcium-, voltage- and osmotic stress-sensitive currents in <i>Xenopus</i> oocytes and their relationship to single mechanically gated channels," <i>Journal of Physiology</i> , February 2000;523.1:83-99.
	X	Zhang and Hamill, "On the discrepancy between whole-cell and membrane patch mechanosensitivity in <i>Xenopus</i> oocytes," <i>J Physiol.</i> , 2000;523.1:101-115.
	X	Zhang et al., "Mechanically gated channel activity in cytoskeleton deficient plasma membrane blebs and vesicles from <i>Xenopus</i> oocytes," <i>J Physiol.</i> , 2000;523.1:117-130.
	X	Zheng et al., "Prostatic Carcinoma Cell Migration via $\alpha_v\beta_3$ Integrin Is Modulated by a Focal Adhesion Kinase Pathway," <i>Cancer Res</i> , 1 April 1999;59:1655-1664
	X	Zitt et al., "Cloning and functional expression of a human Ca^{2+} -permeable cation channel activated by calcium store depletion," <i>Neuron</i> , June 1996;16(6):1189-1196.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MH/

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